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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,602	07/01/2003	James L. Bailey	61501-0003	4808
9629	7590 03/16/2006		EXAMINER	
MORGAN LEWIS & BOCKIUS LLP			MASIH, KAREN	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004		v	ART UNIT	PAPER NUMBER
	,		2837	
			DATE MAILED: 03/16/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/612,602	BAILEY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		karen masih	2837			
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet w	ith the correspondence addr	ess		
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ad patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this commoderate the commoderate (35 U.S.C. § 133).	munication.		
Status						
1)🖂	Responsive to communication(s) filed on	12 January 2006.				
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application	on Papers					
10)	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyare orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR	` '		
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
			Karen Masi Primary Exam	in N iner		
Attachment	· ·					
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	8) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15 	52)		

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Due to a mixup with reference figure 6 placed in the wrong patent reference, a new action is being sent out to clear things up.

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Labriola II in view of Mackay. Labriola II discloses system for controlling motor comprising module processor in communication with central processor and feedback circuitry in communication with module processor, see fig 1 #50, #56 and col 6 lines 4-65 and col 15 lines 4-10. Labriola II lacks disclosing central processor in communication with encoder. Mackay discloses encoder in communication with central processor, see fig 6 #56 and #52 as well as col 7 lines 5-10 and lines 50-60. It would have been obvious to one of ordinary skill in the art to combine the control system of Labriola II with the encoder with central processor of Mackay for improved control. With respect to claim 3 it is disclosed in Labirola as #42.
- 3. Claims 2-8,14 are rejected under 35 U.S.C. 103(a) as being unpatentable over labriola II in view of Mackay as applied to claims 1,3 above, and further in view of Stanton et al, Giacomini et al and Miyanari and Grundmann et al Labriola II and Mackay discloses control system as disclosed above, but lacks encoder that provides rotor and stator positional information, controls one or more coils of motor, feed back of temperature and coil condition (as best understood), H bridge circuits, and programmable gate array. Stanton et al discloses rotor and stator positional information col 5 lines 35-40. Miyanari discloses H bridge in fig 5 and controls one or more coils in

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col 3 lines 1-10. Giacomini et al discloses temperature and coil conditions see claim 6 and #28 fig 1. Grundmann et al discloses programmable gate array. It would have been obvious to one of ordinary skill in the art to combine the control system of Labirola II and Galecki et al with encoder with rotor and stator positional information of Stanton et al since that is typical of an encoder, and H bridge and controlling of coils of Miyanari and feedback of temperature and coil condition of Giacomini et al for improved control and programmable gate array of Grundmann et al since it is typical of integrated circuit.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stanton et al in view of Miyanari and Hlavinka et al .

Stanton et al discloses rotor position based on date recieved from encoder, col 5 lines 35-40. Stanton et al lacks disclosing determining how to energize coils, directing power module to provide current to appropriate coils, and monitoring rotor response. Miyanari discloses how to energize coils and direction module to provide current to appropriate coils, see col 2 lines 30-50 and col 3 lines 1-10 and col 4 lines 25 -40. Hlavinka et al disclose monitoring rotor response, see col 8 lines 35-45. It would have been obvious to one of ordinary skill in the art to combine rotor poison received from encoder of Stanton et al with how to energize coils and providing current to appropriate coils of Miyanari

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which is common in motor control and monitoring rotor response of Hlavinka et al for improved control.

6. With respect to applicant's arguments

7.

- 8. In response to applicant's argument that Labriola and Mackay is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, it is the subject matter that is being taught that are similar.
- 9. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, for improved control.
- 10. In response to applicant's argument that the examiner has combined an excessive number of references, reliance on a large number of references in a rejection does not, without more, weigh against the obviousness of the claimed invention. See *In re Gorman*, 933 F.2d 982, 18 USPQ2d 1885 (Fed. Cir. 1991).

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11. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to karen masih whose telephone number is 571-272-2068. The examiner can normally be reached on m-f 8.30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, david martin can be reached on 571-272-2800 ext 41. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

karen mäsih Primary Examiner Art Unit 2837